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DT311Y
Rugged Tablets

Slim, Rugged, Multi-functional Wireless Computing

The DT311Y 2 in 1 Rugged Tablet from DT Research features the integration of a high brightness 11.6" inch capacitive touch screen and high performance, energy-efficient Intel® Core™ i processors within a slim, lightweight, durable package. With built-in smart card/CAC reader, Wi-Fi and Bluetooth as well as optional data capture modules, these robust tablets offer seamless information capture and transmission for improved workflow. Rated IP65, MIL-STD-810G/461F and HERO certified with wide temperature range, the DT311Y Rugged Tablet provides reliable operation in harsh, mission-critical environments.

Features

- 11.6" inch high-brightness capacitive screen, digital pen support
- Intel® 8th or 10th Generation Core™ i5/i7 processor
- Microsoft® Windows® 10 IoT Enterprise operating system
- NIST compliant BIOS available
- IP65-rated for water and dust resistance
- MIL-STD-810G for shock and vibration protection
- MIL-STD-461F for EMI and EMC tolerance
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified
- Built-in smart card/CAC reader
- Detachable keyboard option for 2-in-1 applications

Major Options

- Front and back cameras
- Intel® RealSense™ Depth camera
- Barcode scanner
- UHF RFID reader
- Long range Bluetooth
- U-blox M8 GNSS module
- 4G LTE/AWS

Specifications

Model	DT311Y	

System

CPU	Intel® Core™ i5-8250U, Quad-Core, 1.6GHz (up to 3.4GHz) Intel® Core™ i7-8550U, Quad-Core, 1.8GHz (up to 4.0GHz) Intel® Core™ i7-10710U, Hexa-Core, 1.1GHz (up to 4.7GHz)
RAM	8GB to 32GB
Storage	256GB to 2TB Flash
Operating System	Microsoft® Windows® 10 IoT Enterprise
NIST Compliance	NIST compliant BIOS available
Display	11.6" LED-backlight, high-brightness (1000 nits) screen with capacitive touch, outdoor viewable
Display Resolution	1920 x 1080
Control Switch and Buttons	1 power button, 2 brightness control buttons, 5 programmable buttons
Speaker	Built-in speaker

Network Interface

WLAN	Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band
Bluetooth	Bluetooth 4.2 LE

I/O Ports

USB	USB 2.0 x 1, USB 3.0 x 1, USB Type C x 1 (data transmitting and charging)
Headset Jack	1 (3.5mm)
Ethernet Port	1
Smart Card/ CAC Reader	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card

Mechanical and Environmental

AC/DC Adapter	Input: 100-240V AC; Output: 20V DC, 3.25A
Battery Pack	Hot swappable battery, 11.4V, 5400mAh; Hot swappable battery, 11.4V, 8000mAh (optional)
Enclosure	ABS + PC plastics and magnesium-aluminum alloy
Dimensions (H x W x D)	8.3 x 12.4 x 0.86 in/ 212 x 316 x 21.9 mm
Weight	3.5 lbs/ 1.6 kg
Durability	IP65, MIL-STD-810G and MIL-STD-461F certified
Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing	Yes
Regulatory	FCC Class B, CE, RoHS compliant
Temperatur	Operation: -10°C to 60°C (-14°F to 140°F), optional -30°C to 60°C (-22°F to 140°F) Storage: -55°C to 70°C (-67°F to 158°F)
Humidity	0% – 90% non-condensing

Major Options

Barcode Scanner	2D scanner, reads 1D also
Camera	2 megapixel front camera, and 8 megapixel back camera; or, Intel® RealSense™ Depth back camera, supports distance capture for 3D scanning, environment sensing, and background segmentation applications
UHF RFID Reader	865MHz – 928MHz, EPCglobal Class 1 Gen 2/ ISO 18000-6C; 30 feet (9.14m) read distance
Long Range Bluetooth	Class 1 Bluetooth (1000 ft)
GNSS Module	U-blox M8 GNSS module with concurrent reception of GPS and GLONASS; industry leading -167dBm navigation sensitivity
Mobile Broadband	4G LTE/AWS
Antenna	N/A

* Specifications subject to change without notice.

Product Configurator

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